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# NOTICE OF ALLOWANCE AND FEE(S) DUE

26710

7590

10/18/2010

QUARLES & BRADY LLP 411 E. WISCONSIN AVENUE SUITE 2040 MILWAUKEE, WI 53202-4497 EXAMINER

NORTON, JENNIFER L

ART UNIT PAPER NUMBER

2121

DATE MAILED: 10/18/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,377	03/26/2004	Keith A. Tabor	134384.00067	8630

TITLE OF INVENTION: HYDRAULIC SYSTEM WITH COORDINATED MULTIPLE AXIS CONTROL OF A MACHINE MEMBER

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/18/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

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MILWAUKEE,	WI 53202-4497								(Depositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFI	RMATION NO.
10/810,377	03/26/2004	•	Keith A. Tabor				134384.00067		8630
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		01/18/2011
EXAM		ART UNIT	CLASS-SUBCLASS		4				
NORTON, J		2121	700-063000						
☐ "Fee Address" ind	nge of Correspondence	(1) the names of u or agents OR, alter (2) the name of a s registered attorney 2 registered patent	printing on the patent front page, list a names of up to 3 registered patent attorneys a name of a single firm (having as a member a red attorney or agent) and the names of up to stered patent attorneys or agents. If no name is no name will be printed.						
PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	A TO BE PRINTED ON T ified below, no assignee eletion of this form is NO	data will appear on th	he pa g an a CITY	tent. If an assignossignment. and STATE OR C	OUNT	TRY)		_
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	<u> </u>	Individual 🖵 Co	rporati	on or other private gro	up entity	Government
a. The following fee(s):  Issue Fee Publication Fee (N Advance Order - 4	permitted)	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
_ ` .	<b>tus</b> (from status indicated is SMALL ENTITY statu	· · · · · · · · · · · · · · · · · · ·	☐ h Applicant is no	long	er claiming SMAI	LENT	ГІТҮ status. See 37 СЕ	IR 1 27(c	1)(2)
OTE: The Issue Fee an	d Publication Fee (if requ	uired) will not be accepted tes Patent and Trademark	d from anyone other th						
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10/810,377	03/26/2004	Keith A. Tabor	134384.00067	8630		
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QUARLES & B	RADY LLP	NORTON, JENNIFER L				
411 E. WISCONS	IN AVENUE	ART UNIT	PAPER NUMBER			
SUITE 2040 MILWAUKEE, W	/I 53202-4497		2121 DATE MAILED: 10/18/2010			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1548 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1548 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/810,377	TABOR, KEITH A.	
Notice of Allowability	Examiner	Art Unit	
	JENNIFER L. NORTON	2121	
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in the or other appropriate communities. This application is sub-	the correspondence address nis application. If not included cation will be mailed in due course. THIS	
1. This communication is responsive to the Amendment rece	ived from the Appellant on 30	<u>June 2010 .</u>	
2. 🔀 The allowed claim(s) is/are <u>5,6,8,9,11-14,16-20 and 22-24</u>			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority unany All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> </ul>	e been received. e been received in Application	No	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) $\square$ including changes required by the Notice of Draftspers	son's Patent Drawing Review (	PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li></ul>			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			
Attachment(s)			
1. Notice of References Cited (PTO-892)		mal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ail Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 1/28/09</li> </ol>	7. ☐ Examiner's A	mendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's St	atement of Reasons for Allowance	
o. Diological material	9. 🔲 Other		
	/Albert DeCady/		
	Supervisory Pate	nt Examiner, Art Unit 2121	

# **DETAILED ACTION**

1. The following is a **Notice of Allowability** in response to the Amendment received on 30 June 2010 per the decision of the Board of Patent Appeals and Interferences rendered on 15 April 2010. Claims 5, 8, 12 and 20 have been amended. Claims 1-4, 7, 10, 15, 21 and 25-25 have been newly cancelled. Claims 5, 6, 8, 9, 11-14, 16-20 and 22-24 remain pending in this application.

### **REASONS FOR ALLOWANCE**

2. The following is an Examiner's statement of reasons for allowance:

Claims 5, 6, 8, 9, 11-14, 16-20 and 22-24 are considered allowable since when reading the claims in light of the Specification, as per MPEP §2111.01 or In re Sneed, 710 F.2d 1544, 1548, 218 USPQ 385,388 (Fed. Cir 1983) none of the references of record alone or in combination disclose or suggest the combination of limitations specified in independents claims 5, 8, 12, and 20.

Independent claims 5, 12 and 20 including, sensing a dimension of an actuator which varies a length (supported in Appellant's Specification of U.S. Patent Publication No. 2005/0216105 A1 at e.g. pg. 3, paragraph [0027]), as well as independent claim 8 including a transformation of a command is utilized by a relationship as define by the equations of claim 8 (supported in Appellant's Specification of U.S. Patent Publication No. 2005/0216105 A1 at e.g. pg. 3, paragraph [0034]); whereas the closest prior art teaches to directly measuring a length to determine a velocity command and to a

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different mathematical transformation equation which does not teach or suggest the claimed invention.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following references are cited to further show the state of the art with respect to a system for moving a vehicle's work implement.

- U.S. Patent No. 4,964,779 discloses an electronic bucket positioning and control system for a vehicle of the type including a hydraulically controlled boom assembly and bucket.
- U.S. Patent No. 5,424,623 discloses a control system which provides a coordinated control interface between the work implement and the vehicle operator.
- U.S. Patent No. 6,032,093 discloses a method and apparatus for controllably preventing an implement from damaging a work machine or itself, which may occur if the implement strikes the work machine, by restricting the movement of the implement and the vehicle operator.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER L. NORTON whose telephone number is (571)272-3694. The examiner can normally be reached on Monday-Friday between 9:00 a.m. - 5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on 571-272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Albert DeCady/ Supervisory Patent Examiner Art Unit 2121

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